SEAN BURGESS

[Portfolio](#) | [LinkedIn](#) | [Email](#) | Houston, TX

Languages & Aptitudes

Python (NumPy, pandas, Matplotlib, Seaborn, Scikit-Learn, PyTorch), SQL, Git, HTML, MS Office

Technical Skills

Data Visualization, Regression (Linear, Logistic), Classification (K-NN, SVM, Random Forest)

PROJECTS

Best Selling Books Exploratory Data Analysis *[Link](#)*
- Cleaned and explored Amazon's top 50 books dataset
- Summarized correlation between multiple variables, such as genre and user rating
- Visualized and plotted various distributions, such as violin and kernel density estimate plots

Bayesian Analysis in Predicting Overconfidence *[Link](#)*
- Simulated a population of entrepreneurs distributed among three skill types
- Tested a multitude of scenarios in which the entrepreneurs learn from prior experience
- Analyzed perceived skill distributions to understand apparent overconfidence

Currency Crises Predictions *[Link](#)*
- Combined large data sets from the World Development Indicators DataBank
- Trained decision trees and identified accurate classifiers in MATLAB
- Predicted currency crises within rich countries

EDUCATION

University of Houston *Graduated 2020*

Mathematics, B.S.

Minor in Economics

Courses: Computer Science & Programming (Python), Intro to Programming (C++), Computing for Engineers (MATLAB), Advanced Linear Algebra, Probability, Statistics, Stochastic Processes

Udacity

Deep Learning Nanodegree

Skills Covered: Deep Learning, Neural Networks (Convolutional, Generative Adversarial, Recurrent)

EXPERIENCE

Trading Systems Developer *Current*
- Building trading systems using EasyLanguage within TradeStation
- Implementing multiple data stream strategies, such as daily/weekly data streams

Mathematics Tutor *2018 - 2021*

FindTutors, Peer Tutoring
- Tutored in all areas of mathematics up to a high school level, such as pre-calculus and statistics
- Tutored former peers and colleagues in university level mathematics, such as probability and calculus